

INTERNATIONAL SEARCH REPORT

Int. Application No

PCT/EP 03/04458

107/1072371

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B43/02 E21B33/138

Rec'd PCT/EP 08 SEP 2004

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 1 047 409 A (CHEVRON RESEARCH COMPANY) 2 November 1966 (1966-11-02) page 1, line 7 - line 45 page 2, line 3 - line 47 page 4, line 45 - line 60; examples 1-4 ---	1-3
Y	WO 97 20129 A (SHELL INT RESEARCH ; SHELL CANADA LTD (CA)) 5 June 1997 (1997-06-05) cited in the application page 6, line 1 - line 14; claims 1-3 ---	1-3
Y	EP 0 826 865 A (HALLIBURTON ENERGY SERV INC) 4 March 1998 (1998-03-04) column 5, line 33 - column 6, line 48 claims 13,5-7,9 --- -/--	1-3

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

5 August 2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 864 726 A (HALLIBURTON ENERGY SERV INC) 16 September 1998 (1998-09-16) column 3, line 36 -column 4, line 50; claims 1,8 -----	1-3

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 03/04458

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 1047409	A		NONE	
WO 9720129	A	05-06-1997	AU 706545 B2	17-06-1999
			AU 1097697 A	19-06-1997
			DE 69607856 D1	25-05-2000
			DE 69607856 T2	05-10-2000
			EA 980486 A1	29-10-1998
			WO 9720129 A1	05-06-1997
			EP 0864032 A1	16-09-1998
			NO 982410 A	28-05-1998
			NZ 323929 A	23-12-1998
			US 6085842 A	11-07-2000
EP 0826865	A	04-03-1998	US 5960880 A	05-10-1999
			CA 2214169 A1	27-02-1998
			EP 0826865 A1	04-03-1998
			NO 973913 A	02-03-1998
EP 0864726	A	16-09-1998	US 5791415 A	11-08-1998
			CA 2232051 A1	13-09-1998
			EP 0864726 A2	16-09-1998
			NO 981102 A	14-09-1998